

What is claimed is:

Sub A1
1 1. A device, comprising:
2 a housing;
3 a transmissive display panel mounted in a first
4 location in said housing, the display panel including
5 first and second surfaces; and
6 a device for directing ambient light entering
7 said housing through a second location, which is
8 different from the first location, through the second
9 surface of the display panel.

1 2. The device of claim 1 wherein the device for
2 directing ambient light includes a reflector.

1 3. The device of claim 2 wherein said reflector is a
2 diffuse reflector.

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1 4. The device of claim 1, further comprising:
2 a diffuser located behind said transmissive
3 display panel for diffusing at least some of said ambient
4 light before it passes through the rear portion of the
5 display panel.

1 5. The device of claim 4, further comprising:
2 a hinge for attaching the device for directing
3 ambient light to said housing.

1 6. The device of claim 5, further comprising:
2 an additional hinge for securing the diffuser
3 to said housing.

1 7. The device of claim 6,
2 wherein the hinge for attaching the device for
3 directing ambient light is secured to a bottom portion of
4 said housing; and

5 wherein the additional hinge for securing the
6 diffuser is secured to a top portion of said housing.

1 8. The device of claim 7, further comprising:
2 a base attached to said housing, the base
3 including:
4 a keyboard.

1 9. The device of claim 8, further comprising:
2 a backlight positioned behind the transmissive
3 display panel.

1 10. The device of claim 4, further comprising:
2 a backlight used to generate light directed at
3 the rear portion of the display panel.

1 11. The device of claim 5, further comprising:
2 a backlight located internal to said housing for
3 generating light used to illuminate said display panel.

1 12. The device of claim 11, wherein a housing opening is
2 located at the second housing location and wherein the
3 diffuser is mounted in the housing opening.

1 13. The device of claim 11, wherein said diffuser is
2 mounted within the housing between the second housing
3 location and the second surface of the display panel.

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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1 14. The device of claim 11, wherein said diffuser is
2 mounted inside said housing between said second location
3 and the second surface of the display panel.

1 15. The device of claim 11, wherein the device for
2 directing ambient light includes a light tunnel located
3 between said second location and said rear portion of the
4 display panel.

1 16. A display device, comprising:
2 a transmissive display panel including a
3 viewing surface and a non-viewing surface; and
4 means for directing ambient light originating
5 from behind the viewing and non-viewing surfaces of the
6 display panel, to said non-viewing surface.

1 17. The display device of claim 16, further comprising:
2 a diffuser for diffusing the ambient light
3 directed to the non-viewing surface of the display panel.

1 18. The display device of claim 17, further comprising:
2 hinge means for connecting the means for
3 directing ambient light to the second surface of the
4 transmissive display panel.

1 19. The display device of claim 17, further comprising:
2 display panel positioning means for adjusting
3 the angle of the display panel relative to a horizontal
4 position to thereby allow for adjustments in the amount
of ambient light incident on at least one of the first
and second display panel surfaces.

1 20. The display device of claim 18, further comprising:
2 a backlight for supplementing the ambient light
3 directed to the non-viewing surface of the transmissive
4 display panel.

1 21. A method of displaying an image using a transmissive
2 display panel having a front viewing surface and a rear
3 non-viewing surface, comprising the step of:

4 directing ambient light from behind the
5 transmissive display panel to the rear non-viewing
6 surface of said transmissive display panel; and

7 controlling the transmissive display panel to
8 block some of the directed ambient light from passing
9 through the transmissive display panel.

22. The method of claim 20, wherein said ambient light
is a natural light source located external to the
transmissive display panel.

1 23. The method of claim 21, further comprising the step
2 of:

3 using a diffuse reflector to direct the ambient
4 light.

1 24. The method of claim 23, further comprising the step
2 of:

3 using a diffuser to diffuse the ambient light
4 directed to the rear non-viewing surface of said
5 transmissive display panel.

1 25. The method of claim 23, further comprising the step
2 of:

3 attaching the diffuse reflector to the display
4 panel using a hinge.

1 26. The method of claim 21, further comprising the step
2 of:

3 using a backlight to supplement the ambient
4 light directed to the rear non-viewing surface of the
5 display panel.

1 27. The method of claim 26, wherein the display panel
2 includes at least one liquid crystal cell.

1 28. A transreflective display device, comprising:
2 a housing;
3 a display panel mounted in a first location in
4 said housing, the display panel including first and
5 second surfaces;
6 a transmissive reflector located between said
7 first location and the second surface of the display
8 panel;

9 a device for directing ambient light entering
10 said housing through a second location, which is
11 different from the first location, through the
12 transmissive reflector and the second surface of the
13 display panel.

1 29. The display device of claim 28, further comprising:
2 a backlight mounted inside the housing behind the
3 transmissive reflector for supplementing the ambient

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4 light directed to the rear portion of the display panel;
5 the transmissive reflector being located between the
6 backlight and second display panel surface.

1 30. The display device of claim ²⁸26, wherein the first
2 display panel surface is a front viewing surface.

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